Ez One Shot

BARCODE **SCANNER USER'S** MANUAL





CHECK VERSION

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			Figure 2
No	Kind of Troubles	Symptoms	Solutions
1	Computer Type (Group 1)	Scanner seems to be performing as usual, but no data is being output.	Unplug the cable from the host computer. Plug the cable back into the host computer. Set the scanner to the exact computer type immediately.
2	Interfaces Selection (Group 1)	The scanner does not scan when the trigger is depressed.	Unplug the cable from the host computer. Plug the cable back into the host computer. Set the scanner to the correct interface. The cable needs to match the interface.
3	Setting Procedure have not completed (Setting Need Triple Shot scanning) Group - 4, 5, 8, 9, 17, 18, 19, 20, 22, 23, 25, 31	The scanner does not output data and beeps three times at every scan. This symptom indicates that a three-scan setting is not yet completed. Some settings take three scans to complete, they are: 1. Preamble, Postamble (Group4)(page 14) 2. Accuracy Adjustment (Group5)(page 15) 3. Customer ID Configuration (Group 8 & 9)(page 18-19) 4. Min/Max Length (Group 17, 18, 19, 20, 21, 22, 25) 5. ABC Codabar (Group 22 & 23) 6. CX-Codabar (Group 22 & 23) 7. Coupling Codabar (Group 22 & 23) 8. EAN 128 (Group 31)	Follow the procedures for these settings at the appropriate pages. The scanner will beep three times for an incomplete setting. Scan RESET to try a setting again.
4	Limitation of length of the bar code	The scanner is reading correctly, except for certain bar codes of a certain length.	Reset the Min/Max setting for the bar code symbology affected.
5	Setup Code Disabled	When scanning the Default barcode, the scanner is not reset to Default but output data ".A001\$".	Scan SETUP CODE ON(Group 1) to enable all setup codes
6	RS232 Protocol Communication setting problem	The scanner appears to be working in the RS-232 interface, but no data is output.	Ensure the correct RS-232 communication parameters have been set: Baud Rate, Handshaking, Stop Bits, Data Bits, and Parity. These settings must be the same for both the scanner and the host.



CLONING MODE

WHAT IS CLONING MODE?

CLONING duplicates a scanners settings in other scanners. It can save time when a number of scanners must be programmed to the same settings.

HOW SHOULD CLONING WORK?

- 1. Using this guide, make all the necessary settings for one wand.
- 2. Scan the CLONING MODE bar code shown below.
- When CLONING MODE is scanned, all setup parameters will be converted to alphanumeric characters and shown on the monitor.
- Using a bar code printer, print out all the setup parameters as Code 39 bar code labels.
- Scan the printed labels sequentially with each wand to be programmed.



.A018\$(Cloning Mode on PC/AT) - you can clone the settings to a PC/AT regardless of the kind of device chosen on the scanner.

NOTES:

- 1. All cloning strings are upper case.
- All cloning strings printed on labels should be the same as those on the monitor sequentially from first to last.
- 3. Cloning mode works in Word Note Pad only.
- Never edit the data on the first row (.A017\$). It is an entry command for cloning.
- 5. The cloning string's length can be adjusted by combining multiple strings into one, or by breaking one string into multiple strings starting from the second row after "...". Length must be in sequences of four, such as 4, 8, 12, 16, 20 (MAX).
- 6. Be sure to print the dots exactly where they are shown on the monitor.

FORMAT OF CLONING

* Format of Cloning:

1st row >>> ".AŌ17\$" (never edit any data of the first row)
2nd row >>> "....XXXX" you can adjust the String's Length starting
from the dots "...." forward. The length of the string should
be in 4, 8, 12, 16 or 20 (MAX)digits.

3rd row ~ so on >>> XXXX

End row - A dot "." Is the ending of cloning.

XXXX Stands for any string

EXAMPLE:

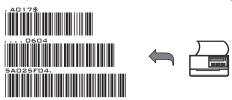
1. PROJECT ASSIGNMENTS:

- 1.1. Beep tone: BEEP LOW -- HIGH.
 1.2. Capslock Mode: CAPSLOCK ON.
 1.3. Reading Mode: CONTINUOUS AUTO OFF.

- 2. SETTING PROCEDURE: 2.1. Scan BEEP LOW -- HIGH (GROUP 3)(page13). 2.2. Scan CAPSLOCK ON (GROUP 11). 2.3. Scan CONTINUOUS AUTO OFF (GROUP2)(page10).
- All parameters will be converted to alphanumeric characters and shown on the monitor.



4. Print the results shown on the monitor as bar codes with a bar code printer. The bar codes should be in the Code 39 symbology.

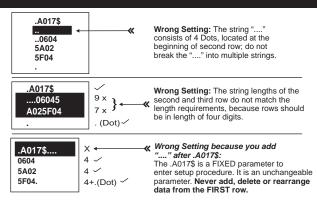


5. Scan these labels with any of the wands that must be programmed with the same settings as the first wand. Be sure to scan from the first row to the second and so on sequentially, top to bottom.

CORRECT SETTING



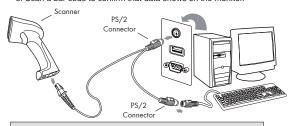
WRONG SETTING



HOW TO CONNECT THE SCANNER TO THE HOST TERMINAL: Handheld Barcode Scanner

KEYBOARD WEDGE INTERFACE

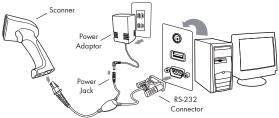
- 1. Power down the host computer.
- 2. Disconnect the keyboard cable from the computer.
- 3. Connect the "Y" cable between the keyboard and the scanner and computer.
- 4. Restart the computer.
- 5. The scanner will beep.
- 6. Set the scanner to KEYBOARD interface by referring to GROUP 1 (page 9) (Interfaces Selection)
- 7. Scanner will beep to confirm the setting.
- 8. Scan a bar code to confirm that data shows on the monitor.



RS-232 INTERFACE

- Power down the host computer.
- 2. Disconnect the RS-232 cable between the scanner and computer.
- 3. Connect the power adaptor to the cable.
- Restart the computer,
- 5. Plug the power adaptor into a power outlet.
- The scanner will beep.
 Set the scanner to RS-232 interface by referring to GROUP 1(page 9) (Interfaces Selection).
- 8. Set RS-232 protocol: Baud Rate, Stop Bits, Handshaking, Data Bits and Parity.
- 9. Scan a bar code to confirm that data shows on the monitor.

- 1. Before plugging the power adaptor into the scanner, be sure the voltage, power consumption, and inner and outer DC characteristics are correct to avoid serious damage to the scanner and/or the computer.
- 2. Make sure the protocol communication settings of the scanner (such as baud rate, data bits, etc.) match those of the host computer. Otherwise, no data will be transmitted.





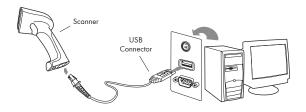
- Check the power adaptor to ensure:

 1. Input of AC current 110V/ 220V matches the power supply standard of the country in which the scanner is being used.
- Adaptor output is +5V DC
- 3. The jack input is +5V DC

USB INTERFACE

The USB Interface supported is compatible with Apple MAC series, later PCs and Windows 98, 2000, Me and XP, Vista.

- 1. Connect the USB cable between the scanner and the computer.
- 2. The scanner will beep.
- The scanner will detect the USB driver automatically. (The first time the scanner is connected via the USB port, follow the appropriate instructions for the host computer.)
- 4. Set the scanner to KEYBOARD/USB interface by referring to GROUP-1 (Interfaces Selection)
- 5. Scanner will beep to confirm the setting.
- 6. Scan a bar code to confirm that data shows on the monitor.

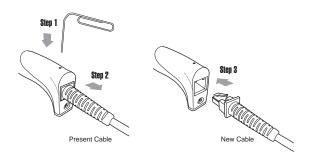


HOW TO CHANGE A CABLE

The scanners are designed to switch easily between interface options. To switch from one interface to another, the appropriate cable must be installed. To change a cabl, simply follow these steps:

- To release the cable, insert a pin or straightened paper clip into the hole at the base of the scanner where the cable is connected.
- 2. Remove the cable from the scanner.
- 3. Plug in the new cable.

After changing to a new cable, be sure to reset the interface setting as appropriate (including parameter settings for the RS-232 interface).



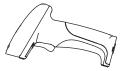
HOW TO SET PARAMETERS

How do you program a scanner with this user's guide?

- 1. Use the scanner to scan at the bar code representing the function/ parameter you want to set.
- 2. When you hear two beeps, the new settings have been defined or updated into the memory processor.

Default parameters are indicated in bold type and underlined characters. The character font is ARIAL BLACK. CD = Check Digit. CDV = Check Digit Verification.

Most settings require only a single bar code, but a few need several different bar codes to be scanned in order to completely define a setting. They are:



---------SETTING BAR CODE

Preamble / Postamble (maximum 16 digits)

Step 1: Scan CLR PRE/POSTAMBLE.

Step 2: Scan PREAMBLE or POSTAMBLE

Step 3: Scan any alphanumeric from Full ASCII Table in Group 33-44 (page52-63)

Step 4: Scan PREAMBLE or POSTAMBLE.

Min Length / Max Length

Step 1: Scan MIN LENGTH or MAX LENGTH.
Step 2: Scan two digits from Group 41 (page60)

Step 3: Scan MIN LENGTH or MAX LENGTH.

Accuracy Adjustment

Step 1: Scan ACCURACY ADJUSTMENT.

Step 2: Scan one digit from GROUP 5 (page15)

Step 3: Scan ACCURACY ADJUSTMENT.

Customer Configuration ID (Example: Code 39) Step 1: Scan CODE 39 SET ID from Group 8 (page18)

Step 2: Scan either one or two alphanumerics (maximum 2 digits) from Full ASCII table in Group 33-44 (page52-63)

Step 3: Scan CODE 39 SET ID from Group 8 (page18)

Set A Data - (CX-Codabar, ABC Codabar, Codabar Coupling). Step 1: Scan SET INSERT DATA.

Step 2: Scan one alphanumeric character from Full ASCII Table in

Group 33-44 (page52-63) Step 3: Scan SET INSERT DATA.

- 1. The scanner will beep three times as a reminder that a setting is not yet complete.
- 2. If you make a mistake, forget a step, etc., scan RESET to start again.





INTERFACES SELECTION, COMPUTER TYPE, DEFAULT, SETUP CODE

DFFAIII T



C004\$



COMPUTER TYPE



CO07\$

SYMPIOMS
Scanner seems to be
performing as usual,
but no data is being

SOLUTION

1. Unplug the cable from the host computer. 2. Plug the cable back into the host computer.

3. Set the scanner to the exact computer type immediately.

Caution: Please ensure the correct computer type is set when the scanner is attached to a new host computer. If set to Notebook, the scanner will operate with no external keyboard.

output.



KEYBOARD

CO03\$

WAND

INTERFACES SELECTION

. coozs





SYMPTOMS

SOLUTION

The wand does not scan/ The scanner does not scan when the trigger is depressed.

- 1. Unplug the cable from the host computer.
- 2. Plug the cable back into the host computer.
- 3. Set the wand to the correct interface. The cable needs to match the interface.

Caution: This scanner is designed to switch easily between interface options. To switch from one interface to another, the appropriate cable must be installed. After changing to a new cable, be sure to reset the interface setting as appropriate.

SETUP CODE READ





SETUP CODE OFF

Caution: Scanning SETUP CODE OFF will turn the scanner into unprogrammable state and the scanner will not react to any setup code.

READING MODE SETTING



- * LED is always on.
- * The trigger does not function in Continuous Mode.



- * The LED is on steady if a bar code is close to the scanner, but starts flashing if no bar code is detected after 60 seconds.
- * The trigger does not function in Flash Mode.



- * The LED will light when the trigger is pressed.
- * The LED will go off when the trigger is released.



- * The LED is always on when the trigger is pressed.
- * The LED will go off if no bar code has been detected after 60 seconds.



* This function works like Trigger Mode, but the scanner beeps to indicate a good read.



- *AUTO SENSING MODE(CCD)
- * If Auto-Sensing Mode(CCD) is on, the LED will go off if no bar code is detected after Deactivation Time elapses.(The default is 3 sec.)
- * The LED lights automatically when a BAR CODE is detected.
- * If Auto-Sensing Mode(CCD) is on, the Magnetic Switch and Blue LED will be activated at the same time.



- *AUTO SENSING MODE(Laser)
- * If Auto-Sensing Mode(Laser) is on, the LED will go off if no barcode is detected after Deactivation Time elapses.(The default is 3 sec.)
- * The laser emits automatically when an OBJECT is detected.
- If Auto-Sensing Mode(Laser) is on, the Magnetic Switch will be activated.

- To extend the scanner's life, keep the scanner set to Trigger Mode or Continuous Auto Off Mode.
- 2. The LED indicator will glow for GOOD READ.
- For advanced settings of Auto-Sensing Mode(such as Deactivation Time, Magnetic Switch and Blue LED) please refer to the next pages.

APPENDIX

BI-COLOR LIGHT SOURCE SETTINGS

(The following settings are supported by Bi-Color models)

CYCLE MODE

DD279



GREEN > RED

. рпавя



RED > GREEN

. DD29\$



GREEN > BI-COLOR

. DO3O\$



RED > BI-COLO

NOTES:

- Illumination color will switch back and forth from one to another when good read does not occur.
- 2. Illumination color will remain as the one used at the last good read.

SINGLE MODE

. DO31\$



. DO32\$



OKLLIN



NOTES:

1. Illumination color will remain single.

APPENDIX

ADVANCED AUTO-SENSING MODE SETTINGS

(The following settings are available after the activation of Auto-Sensing Mode)

MAGNETIC SWITCH (CCD & LASER SCANNERS)





NOTES:

- The Magnetic Switch is automatically activated when Auto-Sensing Mode is on.
- To enable Magnetic Switch, the scanner should be paired with an Autosense Stand to perform Auto-Sensing function.
- 3. When Magnetic Switch is disabled, the scanner will perform Auto-Sensing function without Autosense Stand.

GREEN LED/ SUPPLEMENT LIGHT (CCD SCANNER ONLY)





- 1. The green LED is automatically activated when Auto-Sensing Mode is on.
- Green LED serves as Supplement Light for a CCD scanner in order to enhance the sensitivity of scanner in Auto-Sensing Mode.

APPFNDIX

ADVANCED AUTO-SENSING MODE SETTINGS

(The following settings are available after the activation of Auto-Sensing Mode)



DEACTIVATION TIME (CCD & LASER SCANNERS)

DEACTIVATION TIME

NOTES:

- 1. The default of Deactivation Time is 3 Sec.
- 2. Deactivation Time is the time interval between the last scan and the automatic deactivation of LED or Laser light in Auto-Sensing
- 3. You can set the Deactivation Time value by the following three steps:
- Step 1: scan Deactivation Time
- Step 2: scan two digits(Limit Range: 01 ~ 30sec.) from the Full ASCII numeric table.
- Step 3: scan Deactivation Time



SAME CODE INTERVAL (LASER SCANNER ONLY)

NOTES:

- 1. The default of Same Code Interval is 30 Sec.
- 2. Same Code Interval is the time interval between two consecutive scans on the SAME bar code in Auto-Sensing Mode.
- 3. You can set the value of Same Code Interval by the following three steps:
- Step 1: scan Same Code Interval
- Step 2: scan two digits(Limit Range: 03 ~ 60sec.) from the Full ASCII numeric table.
- Step 3: scan Same Code Interval

IDLE MODE SETTING

IDLE MODE

.B028\$



Pre-Idle Time

B026\$

Idle Mode On



NOTES:

- 1. Idle Mode is only supported by certain models.
- 2. When Idle Mode is on, the scanner will enter idle state to save power after a period of inactivity, or Pre-Idle Time(the default
- 3. You can set the value of Pre-Idle Time by the following four steps:

Step 1: scan Idle Mode On

Step 2: scan Pre-Idle Time

Step 3; scan one digits(Limit Range; 1~9 Min.)from the Full ASCII numeric table.

Step 4: scan Pre-Idle Time

CHECK VERSION, BEEP TONE, TERMINATOR

BEEP TONE MODE

2.7KHz



BEEP HIGH



BEEP HIGH--LOW



BEEP MEDIUM



BEEP LOW--HIGH



REEP LOW

2.1KHz



BEEP OFF







BEEP MEDIUM







BEEP LOW

CHECK VERSION



CHECK VERSION

TERMINATOR

NONE





CR



CR+LF







- 1. For the Keyboard Wedge interface the default terminator is CR.
- 2. For the USB interface the default terminator is CR.
- 3. For the RS232 interface the default terminator is CR+LF.

SEND DATA LENGTH, PREAMBLE & POSTAMBLE.

SEND DATA LENGTH



.DO20\$



PREAMBLE & POSTAMBLE (PREFIX AND SUFFIX)



AD129



PREAMBLE



POSTAMBLE (16)

EXAMPLE:

Set PREAMBLE String as "##" POSTAMBLE String as "\$\$"

SETTING PROCEDURE:

STEP 1: Scan: CLEAR PRE/ POSTAMBLE.

STEP 2: Scan: PREAMBLE.

STEP 3: Scan: "#" twice from FULL ASCII Table.

STEP 4: Scan: PREAMBLE. STEP 5: Scan: POSTAMBLE.

STEP 6: Scan: "\$" twice from FULL ASCII Table.

STEP 7: Scan: POSTAMBLE.

FORMAT:

{Preamble}{Code ID}{Bar Code}{Postamble}

- A PREAMBLE is a string of up to 16 characters added to the beginning of a scanned barcode.
- 2. A POSTAMBLE is a string of up to 16 characters added to the end of a scanned barcode.
- 3. Default value for both: None.

ACCURACY ADJUSTMENT





ACCURACY ADJUSTMENT



Accuracy Adjustment assures a more reliable decoded output. Enabling the feature and setting a number from 1 to 9 subjects the decoded output a higher standard of accuracy. The higher the number, the greater the accuracy.

SETTING PROCEDURE:

- 1. Scan ACCURACY ADJUSTMENT.
- 2. Scan one digit (1~9) from barcode menu above.
- 3. Scan ACCURACY ADJUSTMENT.

RESET



- The scanner will beep three times as reminder that a setting is not yet complete.
- If you make a mistake, forget a step, etc., scan RESET to start again.

LABEL TYPE POSITIVE / NEGATIVE, ENABLE AND DISABLE CODE ID

LABEL TYPE POSITIVE / NEGATIVE



DISABLE NEGATIVE LABEL (POSITIVE LABEL ENABLE)



ENABLE NEGATIVE LABEL (POSITIVE & NEGATIVE ENABLE)

ENABLE CODE ID



A015\$

DISABLE CODE ID



NOTES:

- 1. Only ONE code ID will be sent.
- 2. The code ID is located at the position before the bar code data and after the preamble.

EXAMPLE:

- 1.Preamble 145287,
- 2.Code ID: enable AIM ID,
- 3.Bar code symbologies : EAN 13+5

145287]E0

Preamble CODE ID AIM ID : JE0 145287

BARCODE / DATA EAN 13 +5

OUTPUT : 145287]E0456398712345312411

SYMBOLOGIES CODE ID IDENTIFIER, SET ID

SYMBOLOGIES CODE ID IDENTIFIER						
Symbologies	Factory	AIM ID	Symbologies	Factory	AIM ID	
Symbologies	ID	(new)		ID	(new)	
EAN 128	T]C1	MSI	0]M0	
Code 128	K]C0	MSI(MOD 10 / CDV & not send CD)]M1	
EAN8(+2/+5 OFF)]E4	Code 32	В]X0	
EAN8(+2 ON)	S]E4	Codabar]F0	
EAN8(+5 ON)]E4	Codabar(ABC Codabar)	NY]F1	
UPC-E(+2/+5 OFF)]E0	Codabar(CDV & Send CD)	N]F2	
UPC-E(+2 ON)	Е	JE3	Codabar(CDV & not send CD)]F4	
UPC-E(+5 ON)]E3	UK Plessey	P]P0	
UPC-A(+2/+5 OFF)]E0	Matrix 2 of 5	Y]X0	
UPC-A(+2 ON)	A]E3	Full ASCII Code 39(disable CDV)]A4	
UPC-A(+5 ON)]E3	Full ASCII Code 39(CDV & send CD)	D]A5	
EAN-13(+2/+5 OFF)]E0	Full ASCII Code 39(CDV & not send CD)]A7	
EAN-13(+2 ON)	F]E3	Standard Code 39(disable CDV)]A0	
EAN-13(+5 ON)]E3	Standard Code 39(CDV & send CD)	M]A1	
Code 93	L]G0	Standard Code 39(CDV & not send CD)]A3	
Code 11(disable CDV)]H0	IATA 2 of 5	R]R0	
Code 11(send one CD)	l ,]H0	Industrial 2 of 5	V]S0	
Code 11(send two CD)]H1	China Post Code	Н]X0	
Code 11(not send CD)]H3	Interleaved 2 of 5(CDV & send CD)]I1	
Telepen(ASCII)]B0	Interleaved 2 of 5(CDV & not send CD)	I]I3	
Telepen(Numeric)]B1	Interleaved 2 of 5(disable CDV)]I0	

SET ID - SETTING PROCEDURES

Setting steps:

- 1. Scan the SET ID bar code for a particular symbology.
- 2. Scan one or two alphanumeric characters from the Full ASCII Table.
- 3. Scan the SET ID bar code again.

Example: Define the MSI Code ID = A, Code 93 = G9

MSI:

Step1: Scan MSI Set ID (Group 9). Step2: "A" from (Group 37). Step3: Scan MSI Set ID (Group 9).

Code 93:

Step1: Scan Code 93 Set ID (Group8).

Step2: "G" from(Group37), Scan "9" from(Group41).

Step3: Scan Code 93 Set ID (Group8).

- The length of a Code ID is either one or two characters. If one character is set, the Code ID output will be one character. If two characters are set, the Code ID output will be two characters.
- 2. Only one type of Code ID will be sent.

CODE ID CONFIGURATION: SET ID

. POO1\$ EAN 13 Set ID EAN 8 Set ID . P003\$ **UPC E Set ID** . P004\$ UPC A Set ID Code 39 Set ID .P013\$ Code 93 Set ID . P007\$ Codabar Set ID IATA Set ID Code 128 Set ID .P016\$ EAN 128 Set ID . P022\$ Telepen Set ID . P009\$ Code 11 Set ID .P011\$ Code 32 Set ID . PO12\$ China Post Code (TOSHIBA Code) Set ID

CODE ID CONFIGURATION: SET ID

MSI Code Set ID

. PD14\$

UK Plessey Set ID

. PO 15\$

Matrix 2 of 5 Set ID

.P017\$

Interleaved 2 of 5 Set ID . P006\$

Industrial 2 of 5 Set ID



Full ASCII Code39 Set ID . P008\$

GS1 Databar (RSS) Limited Set ID



GS1 Databar (RSS) Expanded Set ID



GS1 Databar (RSS) Set ID



LABEL Code Set ID (Reserved)



RESET



- The scanner will beep three times as a reminder that a setting is not yet complete.
- If you make a mistake, forget a step, etc., scan RESET to start again.

DELAY BETWEEN BLOCKS AND CHARACTERS

INTERBLOCK DELAY . BOO1\$ 0mS . BDO2\$ 10mS . 8003\$ 50mS . B004\$ 100mS . 8005\$

. 8006\$	500mS
	0000

INTERCHARACTER DELAY . B010\$

140uS

200mS







KEYBOARD LAYOUT/ CAPLOCK MODE/ NUMERIC KEY

KEYBOARD LAYOUT



ENGLISH (USA)



ENGLISH (UK)





FRENCH



JAPAN (106 key only)









CZECH (QWERTY)

CAPITAL LOCK MODE







NOTE:

- 1. When barcode scanner is set to Caplock Free mode, no matter keyboard Capslock LED indicator is ON or OFF, output will be always the same as the Original barcode. In other words, what you see is what output is.(CODABAR is the exception)
- 2. If ABCD/ ABCD, abcd/ abcd, ABCD/T*E, abcd/tn*e are on, they work independently according to their rules.

NUMERIC KEY





RS232: BAUD RATE, DATA BITS & PARITY

BAUD RATE



1200

2400

4800

9600

38400

DATA BITS & PARITY



8 Bits None



8 Bits EVEN



8 Bits ODD



8 Bits MARK



8 Bits SPACE







7 Bits MARK



7 Bits SPACE

RS232: STOP BIT, HANDSHAKING, ACK/NAK, FLOW CONTROL, BCC

STOP BITS





HANDSHAKING









ACK / NAK





FLOW CONTROL: TIME OUT







10 Sec



Unlimited

RCC



RS232 BCC Char On



RS232 BCC Char Off

WAND EMULATION PARAMETER SETTING



LEVEL DURATION OF MINI WIDTH



600uS







HIGH

POLARITY OF IDLE CONDITION



Bar Low / Space High

OUTPUT OF WAND EMULATION

PEN TYPE



WAVE FORM

ENABLE/ DISABLE SYMBOLOGIES

ENABLE



ENABLE ALL CODE





CHINA POSTAL CODE



UK PLESSEY CODE



INDUSTRIAL 2 OF 5



MATRIX 2 OF 5



INTERLEAVED 2 OF 5







DISABLE



DISABLE ALL CODE



CODE 32



CHINA POSTAL CODE





MATRIX 2 OF 5



CODE 128



CODABAR



ENABLE/ DISABLE SYMBOLOGIES

ENABLE







EAN-8





MSI











DISABLE









CODE 39





. NO18\$ IATA

ENABLE/DISABLE SYMBOLOGIES, CHINA POSTAL CODE

ENABLE

GS1 Databar STACKED ENABLE

GS1 Databar LIMITED ENABLE

NO26\$

GS1 Databar EXPANDED ENABLE

G021\$

PDF 417 ENABLE

DISABLE

N033\$

GS1 Databar DISABLE

. NO39\$ GS1 Databar STACKED DISABLE

GS1 Databar EXPANDED DISABLE

GS1 Databar EXPANDED STACKED DISABLE

PDF417 DISABLE

CHINA POSTAL CODE TOSHIBA CODE 1

ENABLE



CDV & SEND CD



MIN LENGTH (11)

K007\$ MAX LENGTH (48)

APPENDIX

FULL ASCII (Code 39) NUMERIC TABLE





SETTING PROCEDURE

MIN / MAX LENGTH

STEP 1 - Scan: MIN LENGTH/ MAX LENGTH STEP 2 - Scan: Two digits from Appendix.

STEP 3 - Scan: MIN LENGTH/ MAX LENGTH

Please note that when Min Length and / or Max Length are enabled, the scanner will only read bar codes that fall into those length parameters. Bar codes shorter or longer than specified will not be read. The default lengths for these are indicated in parentheses under the Min and Max bar codes for each symbology.

- The scanner will beep three times as a reminder that a setting is not yet complete.
- If you make a mistake, forget a step, etc., Scan RESET to start again.





SYMBOLOGIES: MSI CODE, UK PLESSEY CODE

ENABLE



DISABLE



. L003\$

CDV & NOT SEND CD

. L007\$

CHECK DIGIT DOUBLE MOD 10

MSI



CHECK DIGIT DOUBLE 11 PLUS MOD 10





. L006\$

MAX LENGTH (48)

. LD 1 D\$

. LO11\$

<u>DISABLE</u>

UK PLESSEY CODE





APPENDIX

FULL ASCII (Code 39) NUMERIC TABLE





SETTING PROCEDURE

MIN / MAX LENGTH

STEP 1 - Scan: MIN LENGTH/ MAX LENGTH STEP 2 - Scan: Two digits from Appendix.

STEP 2 - Scan: Two digits from Appendix.
STEP 3 - Scan: MIN LENGTH/ MAX LENGTH

Please note that when Min Length and / or Max Length are enabled, the scanner will only read bar codes that fall into those length parameters. Bar codes shorter or longer than specified will not be read. The default lengths for these are indicated in parentheses under the Min and Max bar codes for each symbology.

- The scanner will beep three times as a reminder that a setting is not yet complete.
- If you make a mistake, forget a step, etc., Scan RESET to start again.





SYMBOLOGIES: CODE 93, TELEPEN, IATA



ENABLE



CODE 93



MIN LENGTH (6)



ENABLE TELEPEN



TELEPEN



TELEPEN ASCII



TELEPEN NUMBER



ENABLE





IATA







MAX LENGTH (48)

APPENDIX

FULL ASCII (Code 39) NUMERIC TABLE





SETTING PROCEDURE

MIN / MAX LENGTH

STEP 1 - Scan: MIN LENGTH/ MAX LENGTH STEP 2 - Scan: Two digits from Appendix.

STEP 2 - Scan: Two digits from Appendix. STEP 3 - Scan: MIN LENGTH/ MAX LENGTH

Please note that when Min Length and / or Max Length are enabled, the scanner will only read bar codes that fall into those length parameters. Bar codes shorter or longer than specified will not be read. The default lengths for these are indicated in parentheses under the Min and Max bar codes for each symbology.

- 1. The scanner will beep three times as a reminder that a setting is not yet complete.
- If you make a mistake, forget a step, etc., Scan RESET to start again.





SYMBOLOGIES: INTERLEAVED 2 OF 5, CODE 11











INTERLEAVED 2 OF 5



Last digit suppressed









DISABLE





CDV & SEND CD



CDV & SEND CD (1 DIGIT)

CODE 11





MIN LENGTH (6)



MAX LENGTH (32)

APPENDIX

FULL ASCII (Code 39) NUMERIC TABLE





SETTING PROCEDURE

MIN / MAX LENGTH

STEP 1 - Scan: MIN LENGTH/ MAX LENGTH STEP 2 - Scan: Two digits from Appendix.

STEP 2 - Scan: Two digits from Appendix. STEP 3 - Scan: MIN LENGTH/ MAX LENGTH

Please note that when Min Length and / or Max Length are enabled, the scanner will only read bar codes that fall into those length parameters. Bar codes shorter or longer than specified will not be read. The default lengths for these are indicated in parentheses under the Min and Max bar codes for each symbology.

- The scanner will beep three times as a reminder that a setting is not yet complete.
- If you make a mistake, forget a step, etc., Scan RESET to start again.





SYMBOLOGIES: INDUSTRIAL 2 OF 5, MATRIX 2 OF 5







DISABLE CDV



INDUSTRIAL 2 OF 5



CDV & NOT SEND CD







ENABLE







CDV & SEND CD

MATRIX 2 OF 5





MIN LENGTH (6)



MAX LENGTH (48)

FULL ASCII (Code 39) NUMERIC TABLE





SETTING PROCEDURE

MIN / MAX LENGTH

STEP 1 - Scan: MIN LENGTH/ MAX LENGTH STEP 2 - Scan: Two digits from Appendix.

STEP 2 - Scan: Two digits from Appendix. STEP 3 - Scan: MIN LENGTH/ MAX LENGTH

Please note that when Min Length and / or Max Length are enabled, the scanner will only read bar codes that fall into those length parameters. Bar codes shorter or longer than specified will not be read. The default lengths for these are indicated in parentheses under the Min and Max bar codes for each symbology.

NOTES:

- The scanner will beep three times as a reminder that a setting is not yet complete.
- If you make a mistake, forget a step, etc., Scan RESET to start again.





SYMBOLOGIES: CODABAR





DISABLE CDV



CDV & SEND CD

CODABAR





MIN LENGTH (6)



MAX LENGTH (48)



ST/SP: abcd/abcd





032\$

ST/SP: abcd/tn*e

START / STOP



1004\$ Not Send START / STOP

Example of ST (Start) / SP (Stop) 123456 Not Transmit ST/SP

A123456B ST/SP: ABCD/ABCD a123456b ST/SP: abcd/abcd A123456N ST/SP: ABCD/TN*E a123456n ST/SP: abcd/tn*e





CLSI FORMAT OFF

CLSI FORMAT

CLSI- Enable library space insertion. If you enable the CLSI format, this option inserts spaces in position 2, 7, 13 of the data string for use in library systems.

FULL ASCII (Code 39) NUMERIC TABLE





SETTING PROCEDURE

MIN / MAX LENGTH

STEP 1 - Scan: MIN LENGTH/ MAX LENGTH STEP 2 - Scan: Two digits from Appendix.

STEP 2 - Scan: Two digits from Appendix. STEP 3 - Scan: MIN LENGTH/ MAX LENGTH

Please note that when Min Length and / or Max Length are enabled, the scanner will only read bar codes that fall into those length parameters. Bar codes shorter or longer than specified will not be read. The default lengths for these are indicated in parentheses under the Min and Max bar codes for each symbology.

NOTES:

- The scanner will beep three times as a reminder that a setting is not yet complete.
- If you make a mistake, forget a step, etc., Scan RESET to start again.





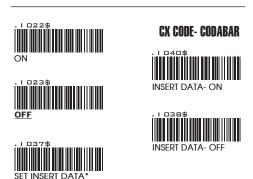
SYMBOLOGIES: ABC-CODABAR, CX-CODABAR



^{*} The data can be any alphanumerics of FULL ASCII Table (GROUP 33-41)(page 52-60)

REMARK:

ABC-CODABAR (American Blood Commission). The ABC Code is an acronym for American Blood Commission. This bar code is a variant of the CODABAR Code developed for the use in the blood bank. This Code consists of two bar codes which are decoded in one read cycle. The code is concatenated when the stop character of the first bar code and the start character of the second bar code is a "D", these two "D" are not transmitted.



^{*}The data can be any alphanumerics of FULL ASCII Table (GROUP 33-41)(page 52-60)

REMARK:

The CX-Code consists of two bar codes which are decoded in one read cycle, the code is concatenated when the stop character of the first bar code is a C, and the start character of the second bar code is a B. The B and C characters are not transmitted.

SYMBOLOGIES: CODABAR COUPLING, ADJACENT REQUIRED



INSERT DATA - ON

CODABAR COUPLING

INSERT DATA - OFF

ABC-Codabar and CX-Codabar have certain rules regarding the Stop Character of first bar code and the stop character of second bar code while in conjunction, while Codabar-Coupling is enabled, the data from any two Codabar bar codes can be coupled into one set of data without any limitations between the Stop character of first bar code and the Start character of second bar code. The Start and Stop characters associated with each bar code will be sent.

* The data can be any alphanumerics of FULL ASCII Table (GROUP 33-44)(page 52-63)

ADJACENT REQUIRED

If CODABAR ADJACENT is enabled, the scanner will only read two adjacent Codabar bar codes; a single bar code will not be read.



- Both ABC-Codabar and CX-Codabar can be enabled together, except when Codabar-Coupling is also enabled.
- If ABC-Codabar, CX-Codabar, and Codabar-Coupling are all enabled at the same time, the scanner will read only Codabar-Coupling, that is, ABC-Codabar, CX-Codabar will be considered coupling formats.

SETTING PROCEDURE - SET INSERT DATA

- Step 1- Scan SET INSERT DATA.
- Step 2- Scan any combination of alphanumeric characters from FULL ASCII Table.
- Step 3- Scan SET INSERT DATA.



NOTES:

NOTES:

- The scanner will beep three times as a reminder that a setting is not yet complete.
- If you make a mistake, forget a step, etc., Scan RESET to start again.

SYMBOLOGIES: STANDARD & FULL ASCII CODE 39, CODE 32

STANDARD CODE 39 & FULL ASCII 39



ENABLE



DISABLE



FULL ASCII CODE 39 ENABLE



FULL ASCII CODE 39 DISABLE



START / STOP - SEND



. G004\$

CDV & SEND CD



. G006\$



. GD 15\$
START / STOP Not SEND

NOTE:

The default for Code 39 is Standard Code 39. If Full ASCII Code 39 is enabled, Standard Code 39 will be automatically disabled.



FNABLE





CODE 32







FULL ASCII (Code 39) NUMERIC TABLE





SETTING PROCEDURE

MIN / MAX LENGTH

STEP 1 - Scan: MIN LENGTH/ MAX LENGTH STEP 2 - Scan: Two digits from Appendix.

STEP 2 - Scan: Two digits from Appendix. STEP 3 - Scan: MIN LENGTH/ MAX LENGTH

Please note that when Min Length and / or Max Length are enabled, the scanner will only read bar codes that fall into those length parameters. Bar codes shorter or longer than specified will not be read. The default lengths for these are indicated in parentheses under the Min and Max bar codes for each symbology.

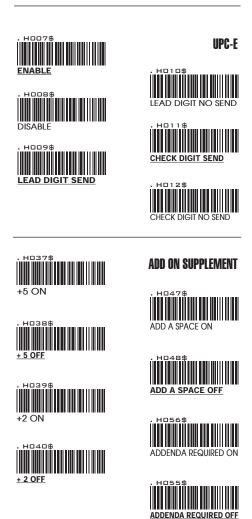
NOTES:

- The scanner will beep three times as a reminder that a setting is not yet complete.
- If you make a mistake, forget a step, etc., Scan RESET to start again.





SYMBOLOGIES FORMATTING: UPC-E



NOTE:

If ADDENDA REQUIRED is set to ON, the scanner will only read an UPC-E bar code that has an addenda. At the same time please also scan +5 ON or +2 ON so the scanner will output a 5-digit or 2-digit addendum.

SYMBOLOGIES: UPC-E SYSTEM NUMBER

UPC-EO



. но63\$



E(0)ON

UPC-E1





E (1) OFF

NOTE:

Most UPC bar codes lead with 0 number systems, for these bar codes use UPC E(0) selection. For the bar codes that lead with the 1 number, use UPC E(1) selection.

UPC-E EXPAND To upc-a

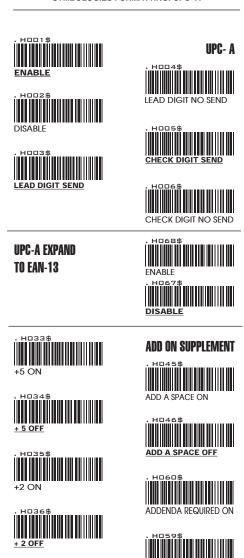


. H054\$

NOTE:

- 1. If UPC-E EXPAND TO UPC A FORMAT is enabled, the output of UPC-A will be 12 digits.
- 2. The default output of UPC-A is 12 digits, if UPC-A EXPAND TO EAN13 is enabled, a zero will be added to in front of the bar code.

SYMBOLOGIES FORMATTING: UPC- A



NOTE:

If ADDENDA REQUIRED is set to ON, the scanner will only read an UPC-E bar code that has an addenda. At the same time please also scan +5 ON or +2 ON so the scanner will output a 5-digit or 2-digit addendum.

ADDENDA REQUIRED OFF

SYMBOLOGIES FORMATTING: EAN 8





DISABLE



EAN-8



LEAD DIGIT NO SEND









+ 2 ON

+ 2 OFF

ADD ON SUPPLEMENT



ADD A SPACE OFF





NOTE:

If ADDENDA REQUIRED is set to ON, the scanner will only read an UPC-E bar code that has an addenda. At the same time please also scan +5 ON or +2 ON so the scanner will output a 5-digit or 2-digit addendum.

SYMBOLOGIES FORMATTING: EAN13, ISBN, ISSN, ISMN

FAN-13 HD14 LEAD DIGIT NO SEND DISABLE LEAD DIGIT SEND





- ISBN ON 1. If ADDENDA REQUIRED is set to ON, the scanner will only read an EAN-13 bar code that has an addenda.
- 2. Either ISSN or ISBN will be considered as an extension of EAN-13. If ISSN or ISBN needs to be read, EAN-13 must be enabled. If ISSN and ISBN need to be read with addenda, EAN-13 must be enabled with ADDENDA REQUIRED set to ON, and +2 ON or +5 ON must be enabled as well.



NOTE:

Both ISSN and ISBN are the extension codes of EAN-13. If scanner is required to read either ISSN or ISBN, EAN-13 must be enabled. Otherwise the scanner will not be able to read ISSN or ISBN.



SYMBOLOGIES: EAN/UCC-128, CODE 128









EAN/ UCC-128



FUNC 1 CHAR SEND





NOTES: DEFINE EAN 128

The first FNC1 character is translated to]c1, and the second FNC1 character is translated to an ASCII <GS> character (scan from Group 41, page 60)

String format:

JC1	DATA CHARACTERS	<gs></gs>	DATA CHARACTERS
-----	-----------------	-----------	-----------------

Setting Procedure:

- 1: Scan DEFINE EAN128.
- 2: Scan ASCII Code (page 60)
- 3: Scan DEFINE EAN128.

CODE 128







MAX LENGTH (48)

GS1 DataBar, LIMITED, EXPANDED

GS1 DataBar (RSS) - OMNI & STACKED





GS1 DataBar CHECK DIGIT SEND











GS1 DataBar PREFIX NOT SEND









G\$1 DataBar LIMITED SET ID

GS1 DataBar (RSS) - LIMITED







GS1 DataBar (RSS) - EXPANDED





GS1 DataBar EXPANDED MIN LENGTH



G\$1 DataBar EXPANDED SET ID

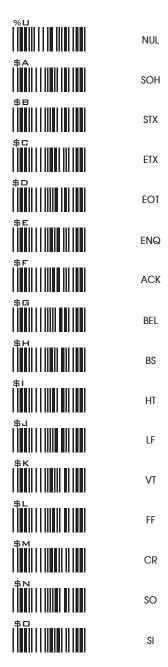


GS1 DataBar EXPANDED DISABLE

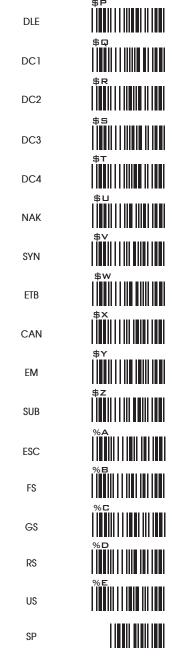
GS1 DataBar EXPANDED MAX LENGTH

GROUP 33~44 FULL ASCII & FUNCTION KEY TABLES

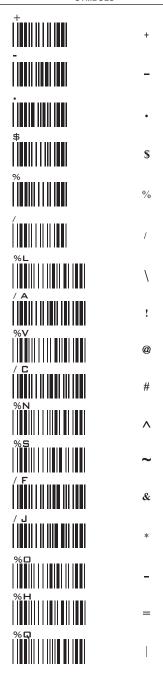
FULL ASCII TABLE (CODE 39) CONTROL CODES



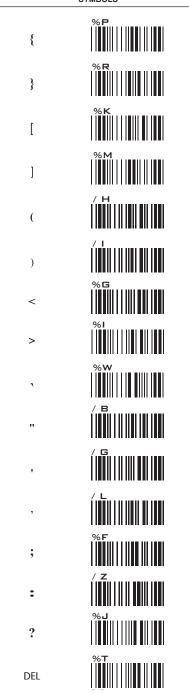
FULL ASCII TABLE (CODE 39) CONTROL CODES



FULL ASCII TABLE (CODE 39) SYMBOLS



FULL ASCII TABLE (CODE 39) SYMBOLS



FULL ASCII TABLE (CODE 39) UPPER CASE ALPHABETS



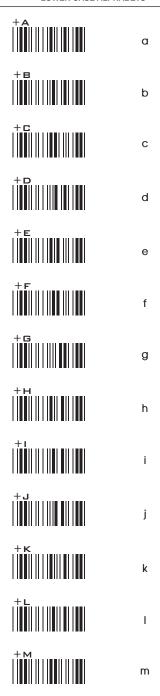


M

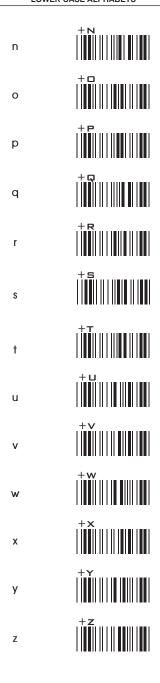
FULL ASCII TABLE (CODE 39) UPPER CASE ALPHABETS

N	z
0	
Р	P
Q	
R	R
S	s
Т	
U	
٧	
W	
X	*
Υ	
Z	

FULL ASCII TABLE (CODE 39) LOWER CASE ALPHABETS



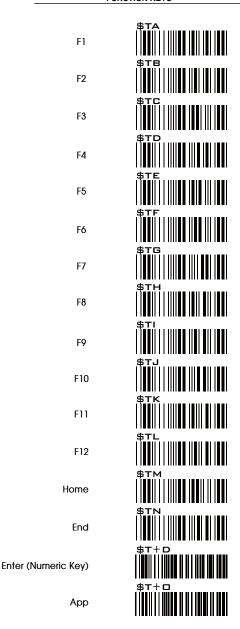
FULL ASCII TABLE (CODE 39) LOWER CASE ALPHABETS



FULL ASCII TABLE (CODE 39) NUMBERS

0
1
2
3
4
5
6
7
8
9

FULL ASCII TABLE (CODE 39) FUNCTION KEYS



FULL ASCII TABLE (CODE 39) NAVIGATION KEYS

\$TO	Cursor Right
\$TP 	Cursor Left
\$TQ 	Cursor Up
\$TR	Cursor Down
\$TS	Page Up
\$TT	Page Down
\$TU	Tab
\$TV	Back Tab
\$TW 	Esc
\$TX	Enter
\$TY	BS
\$TZ	Ins
\$T%K	Del

FULL ASCII TABLE (CODE 39) MODIFIER KEYS

\$T%L

Alt (Left) make*1

\$T+E

Alt (Right) make

\$T%N

Shift (Left) make *2

\$T+1

Shift (Right) make

ST+K

Win (Left) make

\$T+M

Win (Right) make

\$T%W

Ctrl (Left) make *3

\$T+G

Ctrl (Right) make

\$T%M

Alt (Left) break

\$T+F

Alt (Right) break

\$T%0

Shift (Left) break

ST+J

Shift (Right) break

Win (Left) break

Win (Right) break

Ctrl (Left) break

\$T+H

Ctrl (Right) break

For UK Keyboard Special Character

\$T+B

\$T+C

Note:

- *1: When "Alt(Left)Make" is programmed, please scan "Alt(Left)Break" to resume barcode setting.
- *2: When "Shift(Left)Make" is programmed, please scan "Shift(Left)Break" to resume barcode setting.
- *3: When "Ctrl(Left)Make" is programmed, please scan "Ctrl(Left)Break" to resume barcode setting.



Our Barcode Scanners are simple to install and use. Most operational issues can be attributed to:



GENERAL PROCEDURES

- First, make sure the scanner is firmly connected to the host computer, when attached correctly, the scanner will emit one long beep. When the trigger is pressed, LED will flash.
- 2. Once the power is on, try scanning some sample bar codes from this user's guide. The scanner should beep and the LED should flash to indicate a good read in the default configuration. If reading the bar code does not result in a good read, there may have been a problem with the scanning technique or the interface configuration setting. Reset the scanner to default.
- If the scanner indicates a good read, but there is no output of data to the monitor, please check the cabling connection.

KEYBOARD INTERFACES PROBLEMS

In general, the Keyboard Wedge interface is trouble free, but there is still something to check in the event of a problem:

Do you have the correct cable?

Most computers use an XT/AT-compatible keyboard. Be sure you have the proper cable for your computer.

Does the keyboard work?

Since the keyed-in data from keyboard must pass through the decoder, the cabling connections are correct if the keyboard is functioning.

Can your computer accept the data fast enough?

Your computer's BIOS has a feature related to keyboard typing speed. Try to set the Intercharacter Delay feature to stimulate the keystroke entry speed.

Does keyboard port supply enough power?

Most notebook computers do not supply enough power to the scanner. The symptom of insufficient power is a lower "good read" rate (since there is not enough power to properly support the scanning operation).

RS232 INTERFACE PROBLEMS

Once you read bar code, there is no output on the monitor, the symptoms may be caused by:

- Have you set the protocol of RS232 like Baud rate, data bits, parity and handshaking etc. of a scanner to match to the PC terminal setting?
 - Solution: reset the above mentioned RS232 protocol of scanner to match to PC protocol.
- 2. Please check if the cable pinout assignment of bar code match to the pinout assignment of PC terminal?

No power supply to the scanner:

- 1. Do you connect the right power adaptor to the scanner?
- 2. Does scanner connect the cable with right pinout which match to PC terminal?

INTERFACE PROBLEMS

Are you using the Wand Emulation mode with Code 39 output? If so, is your decoder set to accept Code 39 data?

Check the scanner's configuration setting to make sure it can accept the bar code symbology you are trying to read.

Although the cable seems to connect properly, does the scanner not send data to the host computer?

There are no industrial standards for scanner interface cables, so even if they look alike and have similar connector, they might not be alike. For example, cables for Keyboard Wedge and Wand Emulation are similar, but they are not interchangeable due to different pin assignments.

Be sure the cable you are using attaches correctly to the matching connector.

CONFIGURATION SETUP

Are you set up for the right Interface?

Are you set up for the right interface? Did you select the Keyboard Wedge cable but set the scanner for RS-232 or Wand Emulation? Or did you change the Keyboard cable to RS-232 but forget to set the scanner interface to RS-232 as well? Set the scanner to its default settings, then select the correct interface based upon the cable and input you are using.

Symptom ---- The LED lighting is stuck, and no function at all, even triggered the scanner.

Solution ---- Set the scanner to default condition, and choose the right interfaces.

Is the proper symbology enabled?

Each bar code symbology can be individually enabled or disabled. It is suggested that you enable only those that you will be scanning, thereby eliminating the possibility of mis reads from the scanning of other symbologies.

Does the selected bar code symbology configuration match the bar code(s) being read?

Scanned data from each bar code symbology can be restricted to eliminate the scanning of unused symbologies. The restrictions are individually set for each symbology.

POOR BAR CODE QUALITY

The third problem area has nothing to do with the scanner, but rather the printed quality of the bar code and/or the scanning technique employed.

TOLERANCE OF BAR CODE

A bar code may have a tolerance. Normally, the tolerances are caused by bar code font software or a printer. Software with a proven reputation should be chosen to generate bar codes. If the printed bar codes are distorted, the scanner might not recognize them.

It is very difficult to get a good read from a poor quality bar code unless it is scanned many times. As the quality of the symbology drops, the chances for undetected error increase. A bar code Check Digit Verification (CDV) should be used to check the quality of the suspect bar codes.

LABELS (PAPER & COLOR & PRINTER)

The light source of a bar code scanner is generally red, so there are some restrictions for the printing of labels. Care should be taken when choosing materials, especially color inks and papers. Sometimes the combination of the label color and the color of the ink can, in effect, blind the scanner. Media with a shiny surface will also cause reading difficulties for scanners.

Moreover, poor printing quality can also result in reading difficulties for the scanner. Bad printing may be caused by the type of printer used; dot matrix and inkjet printers will not procedure high quality bar codes. Also check to make sure the ink, ribbon, or toner in good supply.

DEFAULT TABLE 1

GROUP		PARAMETER	DEFAULT
		Computer Type	PC-AT
1		Interface	(dependent on customer order)
		Setup Code	On
		Reading Mode	Trigger
		Magnetic Switch	On
2		Green LED/ Supplement Light (CCD Scanner)	On
		Deactivation Time (CCD & Laser Scanner)	3 Sec
		Same Code Interval (Laser Scanner)	30 Sec
		Beep Tone Mode 2.1k	Beep Medium
3		Beep Tone Mode 2.7k	Beep Medium
		Terminator	CR(KB, USB); CR+LF(RS232)
4		Send Data Length	Off
_		Preamble & Postamble	None
5		Accuracy Adjustment	0
6~9		Label Type Positive/ Negative Enable & Disable Code ID	Disable Off
		Interblock Delay	0ms
10		Intercharacter Delay	140us
		Keyboard Layout	English(USA)
11		Caplock	Off
		Numeric Key	Alphanumeric Key
12		Baud Rate	9600
12		Data Bits & Parity	8 Bits None
		Stop Bits	1 stop bit
		Handshaking	None
13		ACK/NAK	Off
		Flow Control Timeout	1 Sec
		BCC	Off
		Level duration of Mini Width	200us
		Polarity of Idle Condition Output of Wand Emulation	High Bar High/ Space Low
14		Wave Form	Full ASCII 39
		Idle Mode	Off
		Pre-Idle Time	1 Min
		Enable and Disable Symbologies	
		Code 32	Disable
		China Postal Code	Enable
		UK Plessey Code	Disable
		Industrial 2 of 5	Disable
		Matrix 2 of 5	Disable
		Interleaved 2 of 5	Enable
		Code 128	Enable
		Codabar	Enable
15~16		Telepen	Disable
		UPC-A	Enable
		UPC-E	Enable
		EAN-8	Enable
		EAN-13	Enable
		MSI Code 39	Disable Enable
		Code 39	Enable
		Code 93	Disable
		EAN-128	Enable
		IATA	Disable
		GS1 Databar	Disable
		GS1 Databar GS1 Databar Stacked	Enable
	1	GS1 Databar Limited	Disable
	1	GS1 Databar Expanded	Disable
		GS1 Databar Expanded Stacked	Enable
17		PDF417	Disable
		China Post Code	l =
		Enable/Disable	Enable
	2	Check Digits	Disable CDV
		Min Length	11 digits
		Max Length	48 digits

DEFAULT TABLE 2

GRO	OUP	PARAMETER	DEFAULT
		MSI	
	1	Enable/Disable	Disable
18	1	Check Digits	CDV & send CD
		Check Digits Mode	Single MOD 10
		UK Plesssy	
	2	Enable/Disable	Disable
		Check Digits	CDV & not send CD
		Code 93	1
	1	Enable/Disable	Disable
		Min Length Max Length	6 digits 48 digits
	-	Telepen	48 digits
	2	Enable/Disable	Disable
19	-	Telepen ASCII/ Number	Number
		IATA	
		Enable/Disable	Disable
	3	Check Digits	Disable CDV
		Min Length	6 digits
		Max Length	48 digits
		Interleaved 2 of 5	
		Enable/Disable	Enable
	1	Check Digits	Disable CDV
		First/ last digit suppressed	No suppressed
20		Min Length Max Length	6 digits
20	-	Code II	48 digits
		Enable/Disable	Disable
	2	Check Digits	Disable CDV
	-	Min Length	6 digits
		Max Length	32 digits
		Industrial 2 of 5	1 5
		Enable/Disable	Disable
	1	Check Digits	Disable CDV
		Min Length	6 digits
21		Max Length	48 digits
		Matrix 2 of 5	
		Enable/Disable	Disable
	2	Check Digits	Disable CDV
		Min Length Max Length	6 digits 48 digits
		Codabar	46 digits
		Enable/Disable	Disable
		Check Digits	Disable CDV
		Min Length	6 digits
22		Max Length	48 digits
		ST/SP; Abcd/abcd, abcd/tn*c,	
		ABCD/ABCD,ABCD/TN*C	ABCD/ABCD
		Start(ST)/Stop(SP)	Send
		CLSI Format	On
		ABC-Codabar	
	1	ON/OFF	Off
23		Insert Data	Off
	1.	CX-Codabar	1
	2	ON/OFF	Off
		Insert Data Codabar-Coupling	Off
		ON/OFF	Off
24		Insert Data	Off
		Adjacent Required	Off
	Т	Code 39	1 ***
	1	Full ASCII 39 Enable/Disable	Enable
	1.	Check Digits	Disable CDV
	1	Start/Stop	Not Send
25	1	Min Length	1 digit
دے	L	Max Length	48 digits
		Code 32	
	2	Enable/Disable	Disable
	2	Leading	send

DEFAULT TABLE 3

GROU	JP	PARAMETER	DEFAULT	
26		UPC-E		
		Enable/Disable	Enable	
		Check Digits	Send	
		Lead Digits	Send	
26		Add a space	Off	
		Addenda required	Off	
		+5 On/Off	Off	
		+2 On/Off	Off	
		UPC-E systems number		
		UPC E(0) On/Off	On	
27		UPC E(1) On/Off	Off	
		UPC-E expand to UPC-A	Disable	
		UPC-A expand to EAN-13	Disable	
		UPC-A		
		Enable/Disable	Enable	
		Check Digits	Send	
28		Lead Digits	Send	
20		Add a space	Off	
		Addenda required	Off	
		+5 On/Off	Off	
		+2 On/Off	Off	
		EAN-8	OII	
		Enable/Disable	Enable	
		Check Digits	Send	
		Lead Digits	Send	
29		Add a space	Off	
		Addenda required	Off	
		+5 On/Off	Off	
		+3 On/Off	Off	
-		EAN-13	Oli	
		EAIN-13 Enable/Disable	Enable	
		Check Digits	Send	
		Lead Digits	Send	
30		Add a space	Off	
		Addenda required	Off	
		+5 On/Off	Off	
		+2 On/Off	Off	
		ISSN On/Off	Off	
		ISBN	Off	
		EAN/UCC128		
	1	Enable/Disable	Enable	
		Code ID	Disable	
		Func 1 Char Send	Not Send	
31		Code 128		
		Enable/Disable	Enable	
	2	Check Digits	Disable CDV	
		Min Length	5 digits	
		Max Length	48 digits	
		GS1 Databar	Disable	
		GS1 Databar Check Digit	Not Send	
		GS1 Databar Prefix	Not Send	
32		GS1 Databar Stacked	Enable	
32		GS1 Databar Limited	Disable	
		GS1 Databar Limited Check Digit	Not Send	
		GS1 Databar Limited Prefix	Not Send	
		GS1 Databar Expanded	Disable	
		· · · · · · · · · · · · · · · · · · ·		

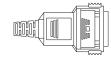
Cable Pin Assignment

INTERFACES:

1. TTL, Wand Emulation

1.1) AMP (D-Sub 9Pin):

١	Pin	Signal
١	2	Data
١	7	GND
١	9	+5VCC





1.2) Din 5 male (240 degree):

Ì	Pin	Signal
	1	+ 5VCC
	2	Data
	3	GND
	4	N/A
	5	N/A

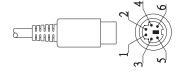




2. Keyboard Interface:

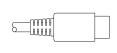
Type of connector: 2.1) PS/2 Mini Din6 Female:

Pin	Signal
1	PC Data
2	NC
3	GND
4	+5VCC
5	PC-Clk
6	NC



2.2) PS/2 Mini Din6 Male:

Pin	Signal
1	KB- Data
2	NC
3	GND
4	+5VCC
5	KB-Clk
6	NC





Type of connector:

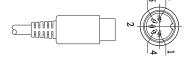
2.3) PC-AT: Din 5 Male:

Pin	Signal
1	KB-Clk
2	KB-Data
3	NC
4	GND
5	+5VCC



2.4) PC-AT: Din 5 Female:

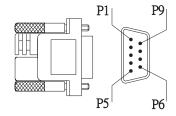
Pin	Signal		
1	PC-Clk		
2	PC-Data		
3	NC		
4	GND		
5	+5VCC		



3.RS232 Interfaces:

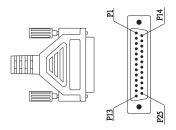
3.1) DB9F

Pin	Signal
2	TXD(Out)
3	RXD(In)
5	GND
7	CTS(In)
8	RTS(Out)
9	+5VCC



3.2) DB25F

Pin	Signal		
2	RXD(In)		
3	TXD(Out)		
4	CTS(In)		
5	RTS(Out)		
7	GND		
16	+5VCC		
25	+5VCC		



BAR CODE TEST CHART

DENSITY	NARROW	WIDE	CHAR.GAP	N/W
	mm(mil)	mm(mil)	mm(mil)	RATIO
MEDIUM DENSITY	0.25(10)	0.625(25)	0.25(10)	1/2.5

MEDIUM DENSITY

NW-7 (CODABAR)



CODE-39



CODE-39 TEST

Interleaved 2of5



UPC



FAN



BAR CODE TEST CHART

DENSITY	NARROW	WIDE	CHAR.GAP	N/W
	mm(mil)	mm(mil)	mm(mil)	RATIO
LOW DENSITY	0.33(13)	0.825(32.5)	0.33(13)	1/2.5

LOW DENSITY



C9876543210E



CODE-39 TEST



0012345690

